



Traffic Signal System Modernization Program Newsletter



Traffic Management Division—Public Works Department

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Project Status

Several activities associated with the \$33 million City-wide Traffic Signal System Modernization Program have been initiated since the project was approved in September with the adoption of the FY 2008 Budget. Each month this newsletter will provide information of on-going activities in efforts to keep everyone abreast of the status of the project throughout its implementation.

Comprehensive Communications Network

On-going activities in support of the Comprehensive Communications Network include:

- surveying of existing infrastructure
- installation of fiber optic cable through the City's conduit in the downtown area to connect the traffic signals.
- Information Technology Services Department (ITSD) has obtained the services of a contractor to complete surveys/analysis of the City's existing traffic signal infrastructure. The contractor, in conjunction with staff from the Traffic Operations and Traffic Management Divisions of Public Works, have completed 225 surveys which include:
 - * determining traffic signal cabinet location and size,
 - * power supply availability,
 - * conduit space and physical condition,
 - * And infrastructure waypoints necessary for mapping.

These surveys will also assist in determining if a traffic signal will be connected through the use of fiber or if it will be connected wirelessly.

Surveying/Analysis



To date surveys of all the downtown signals as well as the signals along the highlighted corridors included in Phase 1 have been completed.

Installation of Fiber Optic Cable



Fiber optic cable currently being installed through existing conduit in the downtown area will soon provide the ability to communicate with certain signalized intersections downtown and test the communications network.

Advanced Traffic Control System

Activities in support of the Advanced Traffic Control System include the preparation of controller equipment specifications and bid packet documents and the posting of a request for bids for the first installation of battery backup systems which will provide uninterrupted power supply at various traffic signals.

Traffic Signal Coordination

On-going activities in support of the Traffic Signal Coordination efforts include the collection of traffic data at 198 intersections located throughout the city. Data collection is anticipated to be completed by the end of February. Once completed this data will be used by the City's On-Call Traffic Engineering consultants to develop optimal signal timing plans.

Project Start Date
October 1, 2007

Estimated Completion Date
September 2011

Estimated Cost
\$33M

Phase 1
250 Locations
Located Throughout all 10 CDs

Phase 1 Corridor Highlights

San Pedro (Sahara to Cypress)

Phase 1 implementation of the TSSM Program consists of the completion of six corridors located throughout the city. All of the signals along these corridors will be connected to the new city-wide communications network, be upgraded to the new model 2070 controller technology, and will have new optimized timing plans.

One of those six corridors is San Pedro Ave. from Sahara to Cypress. This corridor covers approximately 6.5 miles and has 29 signalized intersections.

The San Pedro corridor serves one of San Antonio's major commercial areas, including North Star Mall and the Park North retail area on the northern edge of the corridor. The southern edge of the corridor is home to San Antonio College and the headquarters for VIA Metropolitan Transit. Centrally located on the northern side of the city, San Pedro Ave. serves as an alternate route for both US 281 and IH 10.



Just the Facts...

Q What construction activities will be observed as part of this project?

A Most of the work involved with implementing the program will take place inside the controller cabinet at each intersection (the large metal box). Additional activities such as hanging fiber optic cable on wooden poles or installing cable in conduit on the roadside may also be observed. Disruption to traffic during these construction activities will be very minimal.

Have a question about the project?
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